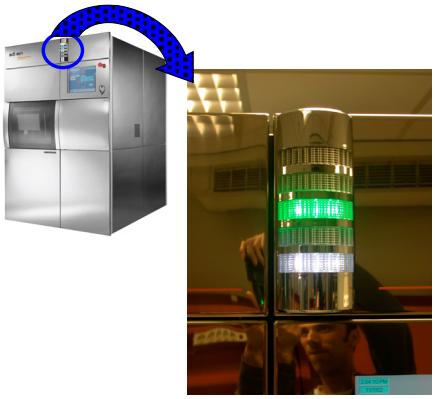
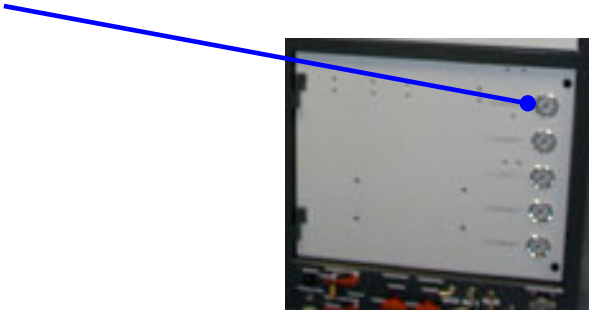
Basic checks

Step	Action	To have more details...
1	Wait for the end of the current batch: check on the light tower that the machine is ready: **GREEN light ON**.	
2	Check the compressed air supply It must be 6 bar $\pm$ 0.3 bar. If the reading is less than 6 bar: ■ check the compressed air supply. It must deliver at least 7 bar. ■ check that the air supply valve is open, and if not, open it.	 **Utility control panel** **Air supply valve** **Utility connection panel**

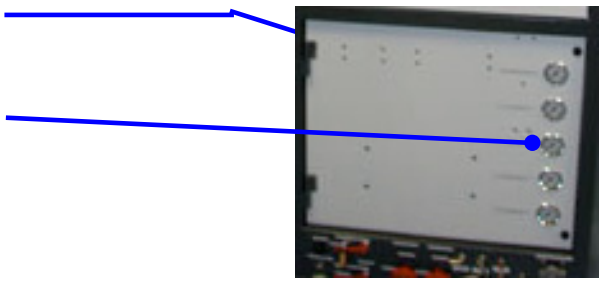
Basic checks

2 Check the dry nitrogen supply pressure

It must be 1.5 bar $\pm$ 0.3 bar.

You have to read the following values on the manometers of the utility control panel:

- Dry N_2 supply inlet pressure = 0.8 bar.
- N_2 sweeping of turbo pump in process = 0.2 bar



Utility control panel

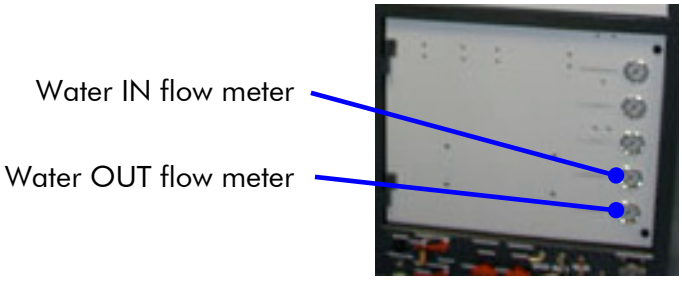
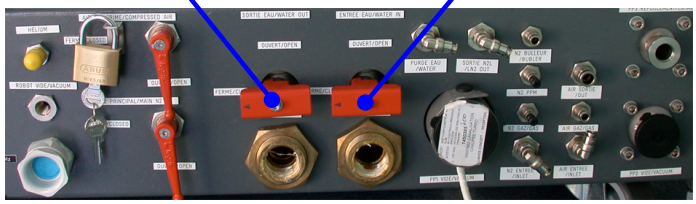
If readings are not correct:

- check the dry nitrogen supply. It must deliver at least 1.5 bar.
- check that the dry nitrogen valve is open, and if not, open it.

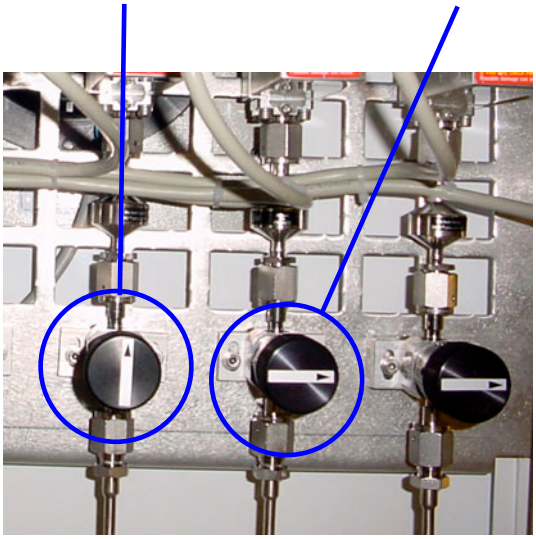
Utility connection panel

Dry nitrogen valve

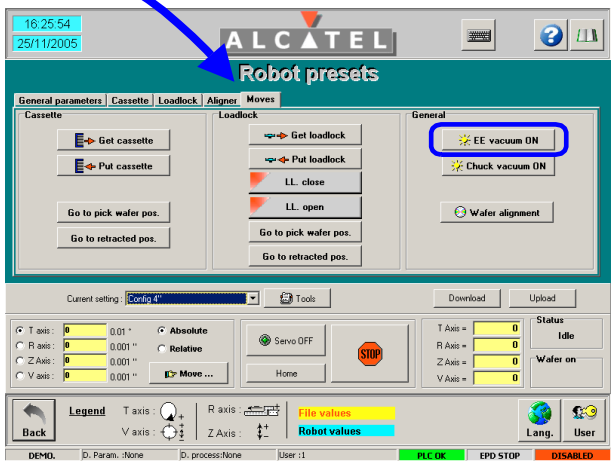
Basic checks

3	**Check the water differential pressure** The water differential pressure between water inlet and outlet must be at least 3 bar. If not: ■ check the delivery water system ■ check that the water inlet and outlet valves are open, and if not, open them: they must be in the same position as shown on the photo. ■ check the water circuit.	 **Utility control panel** **Water outlet valve** **Water inlet valve**  **Utility connection panel**
4	**Check the He supply pressure** The He supply pressure must be 1.5 bar $\pm$ 0.3 bar. If reading is less than 1.5 bar, check the He supply line.	

Basic checks

Step	Action	To have more details...
5	**Check the process gas inlet pressure on each gas line** The gas supply pressure is read on the corresponding manometer at the rear of the machine. It must be 1.5 bar $\pm$ 0.3 bar. If reading is less than the correct supply value: ■ check the corresponding process gas supply bottle. ■ check that the manual valve in the integrated gas panel is open, and if not, open it.	**Open position** **Closed position**  **Integrated gas panel : bottom view**

Basic checks

Step	Action	To have more details...
6	**Check the vacuum pressure on the atmospheric robot end effector.** This pressure is given by the "**VS#2**" sensor located on the robot itself. It must be 550 mm Hg with a wafer placed on the end effector: ■ Place and hold a dummy wafer on the robot end effector. ■ In the Navigation area of the "**System**" screen, click on the "**Manual**" icon. ■ In the "**Maintenance**" screen, click on the "**Robot presets**" button. ■ In the "**Robot presets**" screen, select the "**Moves**" tab. ■ Click on the "**EE vacuum ON**" button. Read the vacuum pressure value on the "**VS#2**" sensor. It must be 550 mm Hg. If the vacuum pressure is OK, click on the "**EE vacuum OFF**" button and remove the dummy wafer. If the vacuum pressure is not correct, check the vacuum circuit supply as well as the robot membrane pump.	 

Basic checks

Step	Action	To have more details...
7	**Check the vacuum pressure on the atmospheric robot flat finder.** This pressure is given by the "**VSPA**" sensor located on the robot itself. It must be 550 mm Hg with a wafer placed on the flat finder: ■ Place and hold a dummy wafer on the robot flat finder. ■ In the Navigation area of the "**System**" screen, click on the "**Manual**" icon. ■ In the "**Maintenance**" screen, click on the "**Robot presets**" button. ■ In the "**Robot presets**" screen, select the "**Moves**" tab. ■ Click on the "**Chuck vacuum ON**" button. Read the vacuum pressure value on the "**VSPA**" sensor. It must be 550 mm Hg. If the vacuum pressure is OK, click on the "**Chuck vacuum OFF**" button and remove the dummy wafer. If the vacuum pressure is not correct, check the vacuum circuit supply as well as the robot membrane pump.